

#### DISCLAIMER

IPC endeavors to ensure that all the information contained in this user manual is up to date and accurate, though assumes no liability or responsibility for any errors or omissions herein, which is subject to correction without prior notification.

IPC hereby accepts no liability for any alleged harm resulting from the use or misuse of the *Acoustic EQ*, and/or any losses incurred through the use of it by any method other than that outlined in this user manual or on the product packaging and flyer.

This user manual must not be duplicated, translated or transmitted in any other languages or formats without obtaining formal written authorization from IPC.

#### SPECIFICATIONS

##### Acoustic EQ

**Size (HxWxD)** 1,320 x 253 x 60 mm / 52" x 10" x 2.4"

**Weight** 5 kg / 11 lbs

**Power** Does not require external power supply

**Control** On-off switch, Phase control and Damping control

##### Acoustic EQ Stand

**Size (HxWxD)** 1,200 x 367 x 400 mm / 47.2" x 14.4" x 15.7"

**Weight** 4 kg / 8.8 lbs

# IPC

#### Innoworks Product Creation Ltd.

IPC Center, 26 On Lok Mun Street, Fanling,

New Territories, Hong Kong.

T +852 3525 1494 F +852 3525 1498

info@innworkspc.com

www.ipcav.com

# IPC AV



POSSIBLE ONLY BY  
Euphoria™  
Technology

Improve your life

# User Manual

## Acoustic EQ<sub>by AER\*</sub>

Enrich the acoustic performance instantly

\* The *Acoustic EQ* was developed by AER (Audio Engineering Research – a division of IPC).



## INTRODUCTION

Designed to meet the highest audio industry standards, the *Acoustic EQ* enhances all aspects of audio performance, live or pre-recorded, to a quality that has never been reached before. The *Acoustic EQ* can be easily incorporated into any concert hall, indoor performance venues, recording studios, Hi-Fi listening rooms and home-theaters without modifying the existing sound system, yet the resultant audio quality is fully optimized.

The *Acoustic EQ* generates a *PVA Field (Proton Vibration Alignment Field)* that improves sound transmission such that the intelligibility is significantly increased, rendering greater stereo width, more realistic vocals and finer dynamic details. The difference it makes to the audio performance encompasses all musical ranges: midrange is enriched, bass deepened and treble defined. Therefore the listener's audible perception becomes exceptionally precise and three-dimensional. All these enhancements are made possible only through IPC's proprietary *Euphoria Technology™*.

## FEATURES

- Wall-mount or free-standing
- Suitable for permanent installation
- Suitable for all indoor performance venues
- Does not require external power supply
- No maintenance required
- Power on/off switch
- Adjustable acoustic phase control
- Adjustable acoustic damping control
- Enriches listening experience
- Enhances intelligibility
- Enhances imaging and stereo perception
- Improves sound transmission and projection
- No modification of the sound system is required
- Built-in full-frequency sound-absorbing adjustable system: acoustic reflectivity can be tuned
- Reduces the quantity of loudspeakers required in live performances

## CONTROL



- ON/OFF  
The ON/OFF switch controls ON and OFF function of the *Acoustic EQ*.

### • FINE TUNING

By turning this knob, the user can fine tune the *PVA field* alignment to match the acoustic property of the room. This is best done by a professional acoustic engineer or the dealer's technician.

### • DAMPING

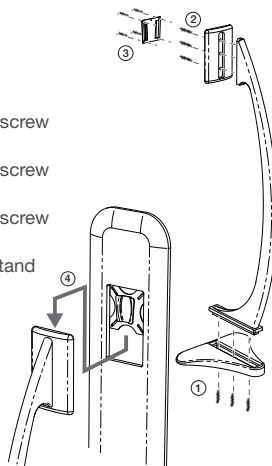
By turning this knob clockwise, you can decrease reflection of the panel and hence reduce the amount of reverberation of the room. The proper setting depends on the existing room acoustics. It also depends on the reverberation in the recording.

## INSTALLATION

### Option 1 – Stand

Procedures:

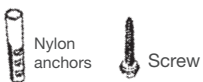
1. Tighten 3 pcs of flat head screw (6mm x L24mm)
2. Tighten 3 pcs of flat head screw (6mm x L24mm)
3. Tighten 4 pcs of flat head screw (6mm x L14mm)
4. Affix *Acoustic EQ* to the Stand



### Option 2 – Wall Mounting

Procedures:

1. Insert 4pcs of Nylon anchors (Ø8mm) into the wall
2. Tighten 4pcs of screw (5.5mm x L38mm)
3. Affix *Acoustic EQ* to the bracket on the wall

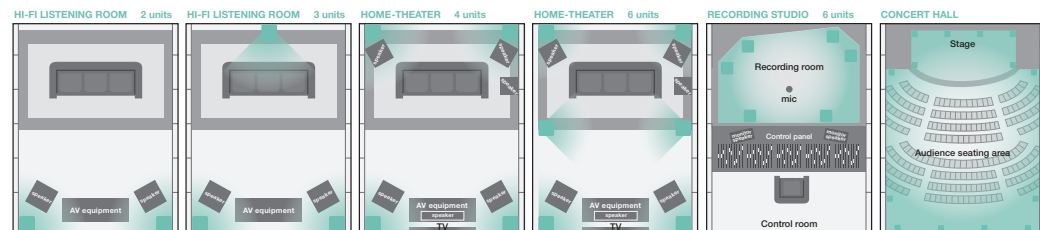


Note:

- Ensure the wall bracket fits on a flat surface and the top edge being horizontal to the ground
- Wall mounting of the *Acoustic EQ* wall bracket requires 4 screws or fittings. Always choose screws or fittings which are suitable for the material of the wall and have sufficient holding power. This package includes the wall bracket with screws and fittings for concrete, light-weight concrete or brick.

## HOW TO USE

Better result can be achieved using more units. The key is to place the *Acoustic EQ* strategically between the stereo equipment and the listening position.



Placement of *Acoustic EQ*(s)

## HOW IT WORKS

In traditional electro-acoustic engineering, most people focus on the physics of the frequency spectrum from 20Hz to 20kHz that is commonly known as the “audible spectrum”.

However, there are a lot of harmonics in a musical signal in which the frequencies can range up to and over 20kHz. The characteristics of electrical components at high frequencies affect music reproduction; therefore many high-end professional audio equipment manufacturers spend an extraordinary amount of money to improve the electro-acoustic properties of their equipment.

In many cases, though, even these expensive components may sometimes fail to deliver the results they claim simply because the micro-phase alignment (phase alignment of signal under very high frequency condition) of the motions of particles have neither been understood nor corrected during design and manufacture.

With this in mind, IPC has created the *Acoustic EQ* that can improve the micro-phase alignment of motions of particles in the atmosphere. The *PVA Field (Proton Vibration Alignment Field)* generated by the *Acoustic EQ* can align the motions of particles of the atmosphere, mainly the air molecules, making the sound transmission through air more effective and complete.

Once the micro-phase alignment is achieved, sound transmission loss in the air will be minimized, enabling a clear sound projection over distance. This provides excellent acoustic conditions to retain richer harmonics and fuller nuances. The result will be an unparalleled audio experience like never before heard.

## EUPHORIA TECHNOLOGY

IPC's proprietary *Euphoria Technology™* is implemented in all IPC products to generate a prescribed and stable *PVA Field (Proton Vibration Alignment Field)*.

An atom has three major particles, namely Protons, Electrons and Neutrons. The *PVA Field* created by *Euphoria Technology™* aligns the vibration and movement of protons and electrons in all matter so that their physical properties are fundamentally enhanced. *Euphoria Technology™* is based on quantum mechanics

operating on the scale of picometers, i.e., picotechnology. Picotechnology refers to the manipulation of matter on the scale of trillionths of a meter ( $10^{-12}$  m), and is much more advanced than traditional nanotechnology.

*Euphoria Technology™* was invented by IPC and has been successfully applied to products in different industries.

## PRODUCT INFORMATION

Please review the following information carefully for the proper use of *Acoustic EQ*.

### Cautions

- Do not clean the unit with benzene, paint thinner, alcohol or any other solvent.
- Do not expose to direct sunlight or excessive heat.
- Do not drop, hit or otherwise abuse the unit.
- Do not expose to any liquid.
- The assembly should be carried out by a qualified person as wrong assembly can lead to units that fail to function or units that fail resulting in personal injury or damage.

### Storage

Store *Acoustic EQ* in a cool, dry place away from direct sunlight.

## WARRANTY

Innoworks Product Creation Ltd (IPC) warrants the *Acoustic EQ* to be free from defects in material and workmanship during the 6-year warranty period starting from the date of purchase. The warranty excludes the natural wear and tear for *Acoustic EQ Stand*. Customer should present the original invoice with the date of purchase, product serial number and the authorized dealer's seal to qualify for warranty repair service including free parts and labor within the warranty period.

**Important:** The warranty shall become void if the *Acoustic EQ* is damaged or defective as a result of opening, misuse, abuse, alteration, contamination, tampering, unauthorized maintenance or failure of the purchaser to follow normal operating procedures outlined in the user manual. In cases where the customer has chosen a representative not appointed or authorized by IPC for repair services, the product warranty shall be void immediately.